User's Manual

BPC82-5B-D525

Copyrights

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All trademarks are property of their respective owners

Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

FCC Notices

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Increase the separation between the equipment and the receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio or television technician for help.

This device complies with Part 15 (A) of the FCC Rules. Operation is subject to the following two conditions:

1) this device may not cause harmful interference and

2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS DEVICE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

CE Notice

This device complies with **EMC Directive 2004/108/EC** issued by the Commission of the European Community.

WEEE Notice

The **WEEE** mark applies only to countries within the European Union (EU) and Norway.

This appliance is labeled in accordance with **European Directive 2002/96/EC** concerning **waste electrical and electronic equipment** (**WEEE**). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

Safety Notice

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer’s instructions.

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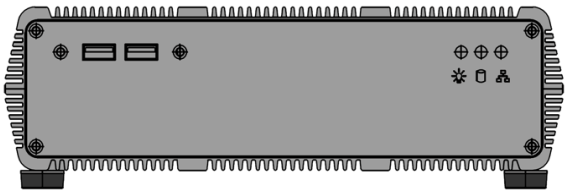
1.

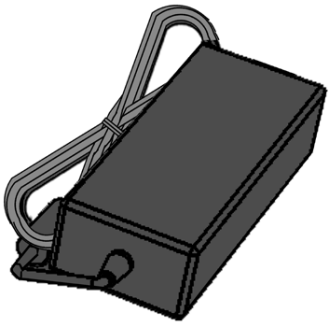
Hardware Setup

1.1. Unpacking the Box

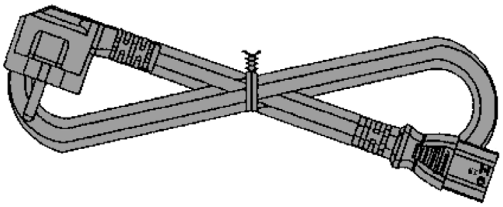
The Device X 1



Power Adaptor X 1



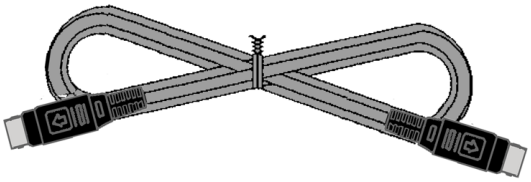
Power Cord X 1



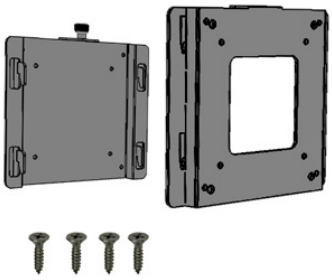
Driver and Utility CD X 1

RJ50 to DB9 COM port adapter cable X 1

DC Output Cable



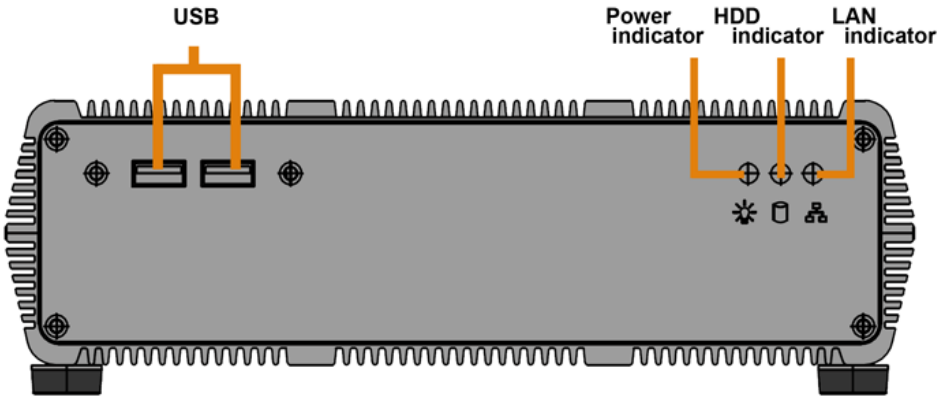
Wall Mount Kit



2.

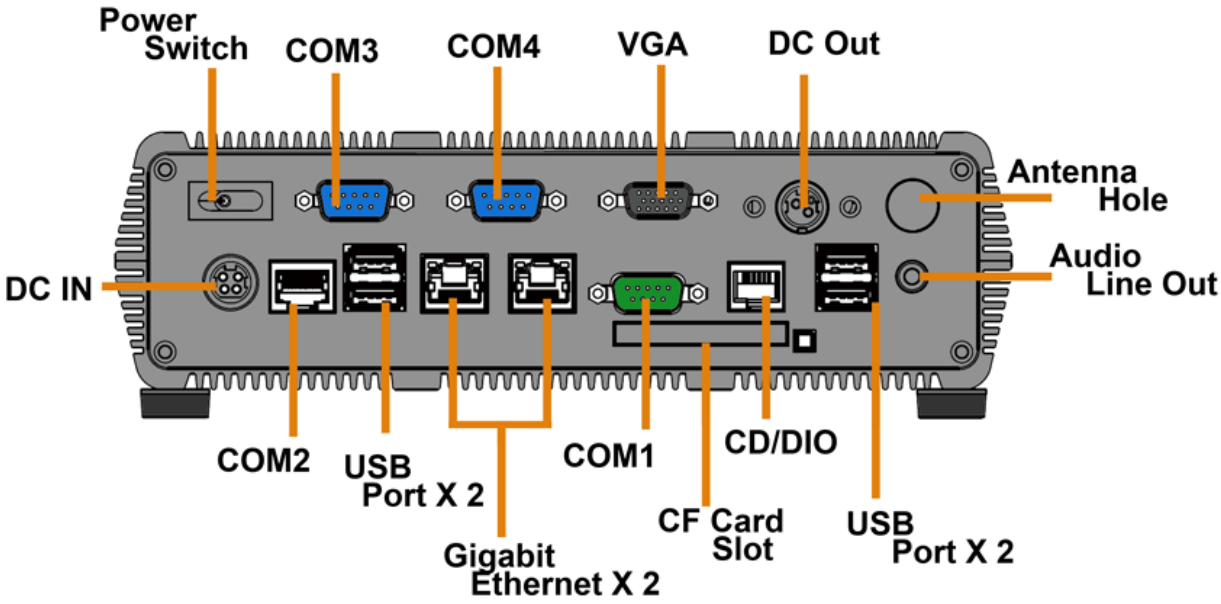
Quick Tour

2.1. Front View



	The **Power** indicator will glow green when power is on.
	The **HDD** indicator will blink green when the HDD is accessed.
	The **LAN** indicator will blink green when transferring data though the LAN.

2.2. Rear View

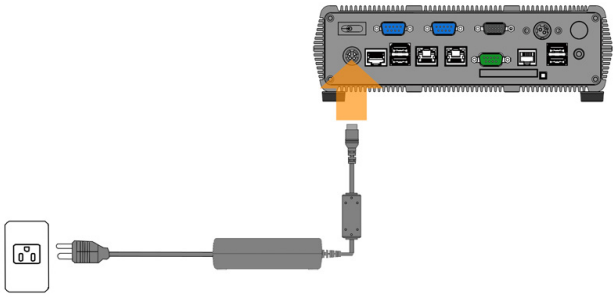


Note: For details of I/O ports on the back panel, please refer to section 4. I/O Definition.

2.1. Peripherals Installation

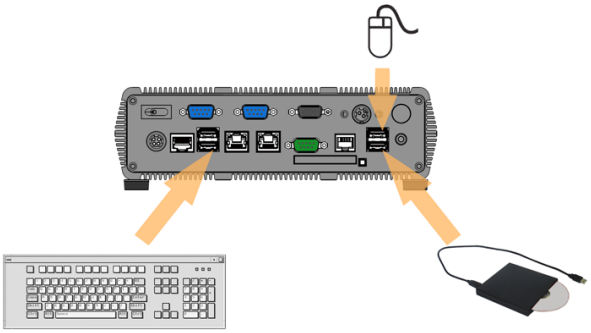
Power Adapter

Connect the output jack of the adapter to the **DC in** jack on the back panel of the device.



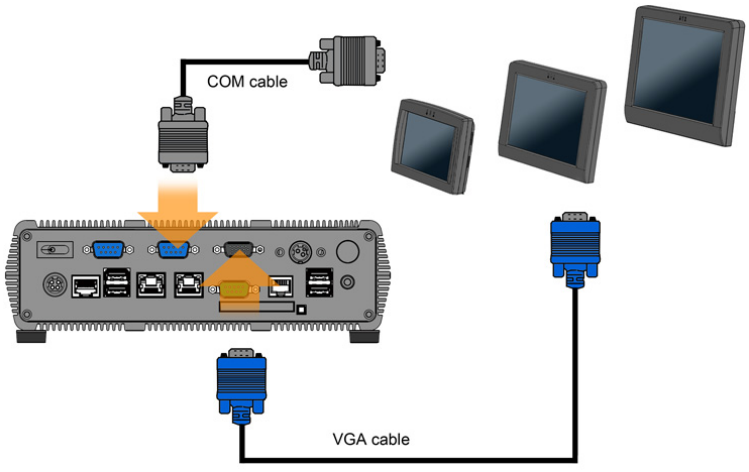
USB Mouse, USB Keyboard and USB ODD

Connect your USB Mouse, USB Keyboard and USB ODD to **USB** ports on the back panel of the device.



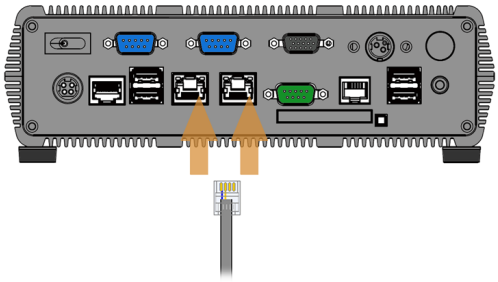
VGA LCD Touchscreen Monitor

1. Connect one end of the Serial Port Cable to the **COM** male port on the back panel of the device, another end to the COM port of your LCD panel.
2. Connect one end of the VGA cable to the **VGA** female port on the back panel of the device, another end to the VGA port of your LCD panel.



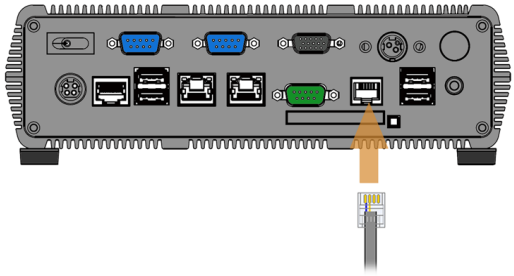
LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN** port on the back panel of the device, another end to your internet device.



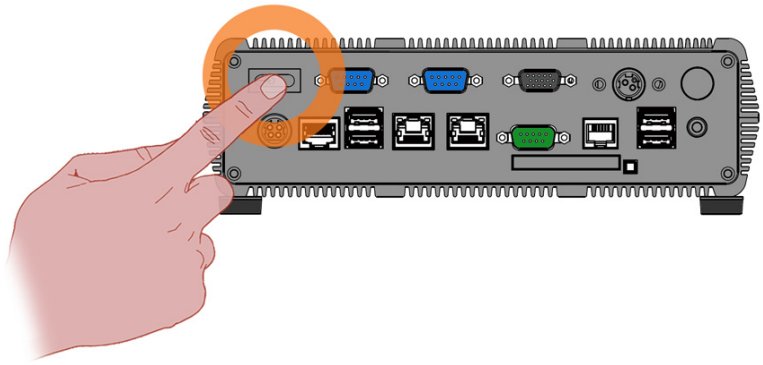
Cash Drawer

Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the device, another end to your cash drawer.



2.2. Turn on the Device

1. Make sure all peripherals are connected properly.
2. Press and hold the power switch until the power indicator on the front panel glows green.

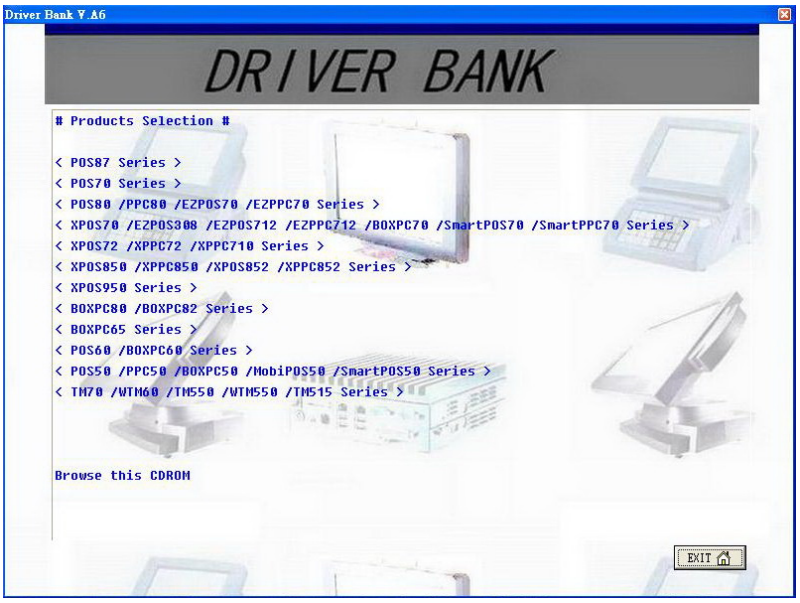


3.

Basic Driver Installation

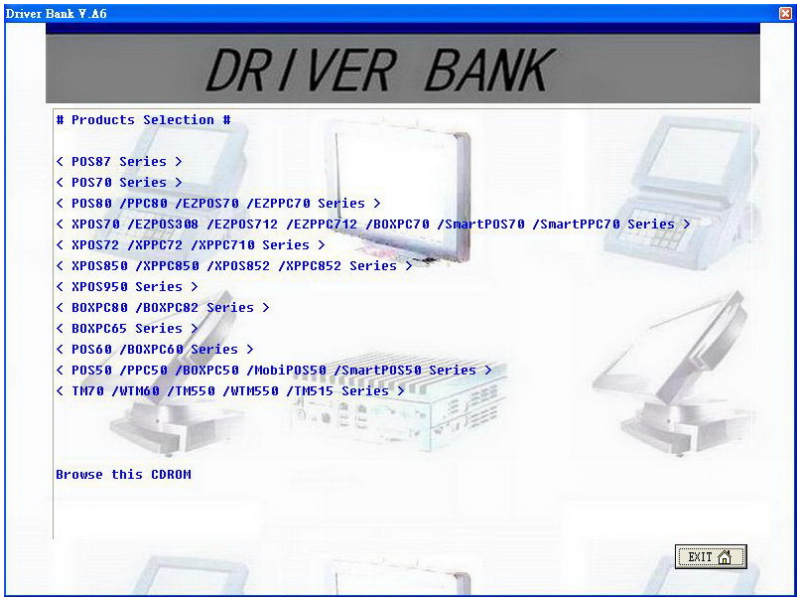
3.1. Before the installation

1. Insert the driver CD into your external DVD-ROM drive. The program autoruns and displays the **DRIVER BANK** screen.



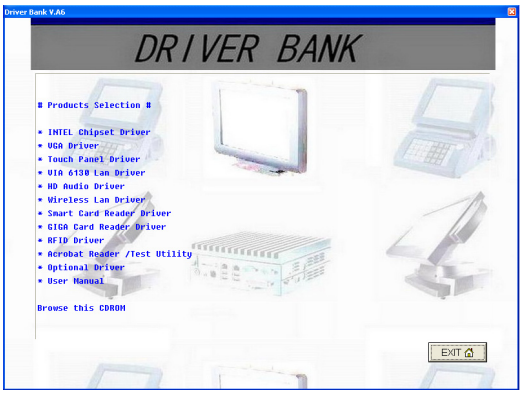
2. Click **BOXPC80/ BOXPC82 Series,** you can see the main screen.

Note: The instructions below are based on the Microsoft Windows XP.



3.2. Chipset Software Installation

1. On the main screen, click **INTEL Chipset Driver**.



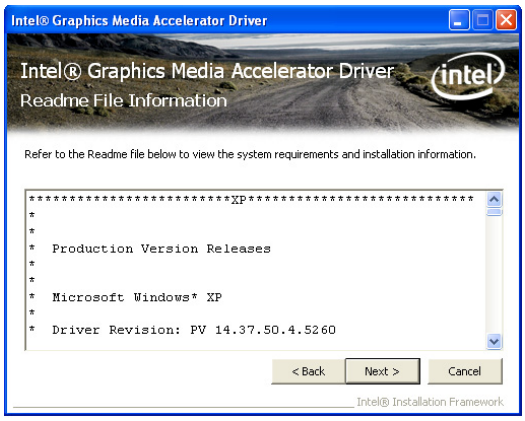
2. Click **Next**.

Intel® Chipset Device Software
Intel® Chipset Device Software
intel
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all Windows* programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

3. Read the License Agreement carefully and click **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
intel
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

4. Click **Next**.

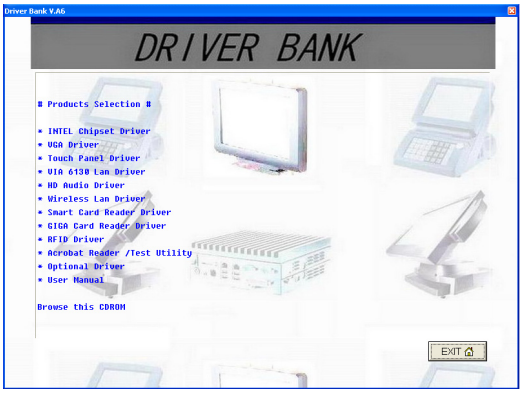

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
**********XP**********
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: PV 14.37.50.4.5260
< Back
Next >
Cancel
Intel® Installation Framework

5. Click **Finish**.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
The setup program successfully installed the Intel® Chipset Device Software onto this computer. Click Finish to complete the setup process.
Finish
Intel® Installation Framework

3.3. VGA Driver Installation

1. On the main screen, click **VGA Driver**.



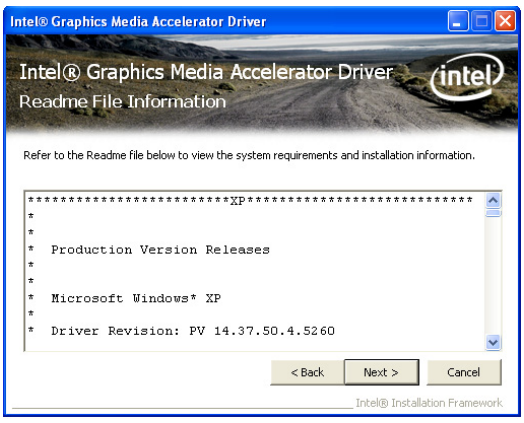
2. Click **VGA Driver for Windows.**

3. Click **Next**.

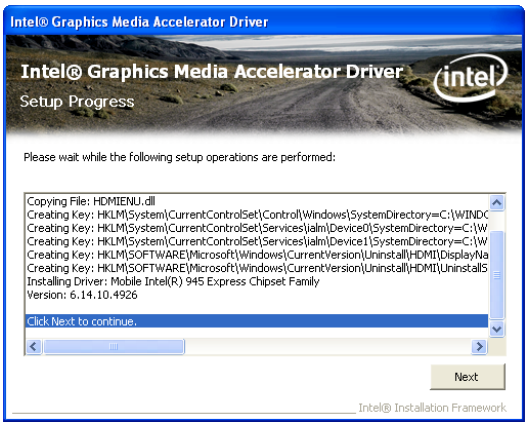
4. Read the License Agreement carefully and click **Yes**.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

5. Click **Next**.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
**********XP**********
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: PV 14.37.50.4.5260
< Back
Next >
Cancel
Intel® Installation Framework

6. Click **Next**.

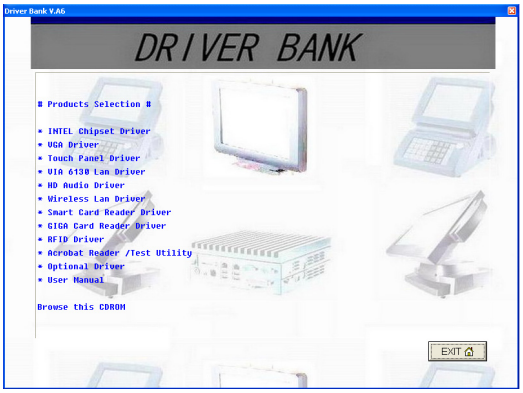


7. Select restart your computer right now or later, and then lick **Finish**.

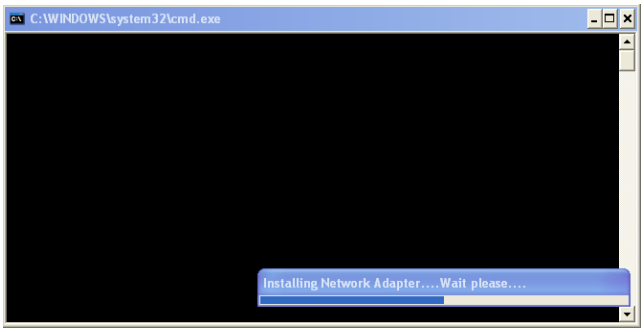
Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

3.4. LAN Driver Installation

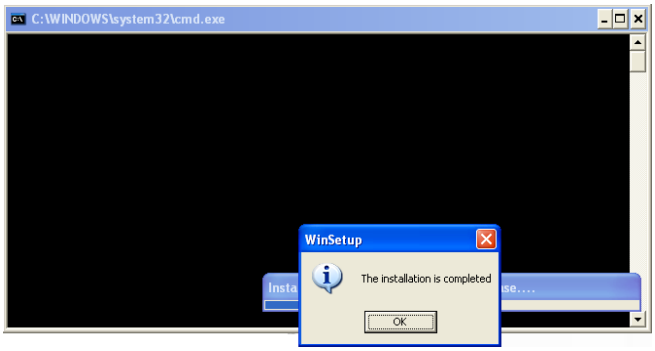
1. On the main screen, click **VIA 6130 LAN Drive**.



2. The driver will be installed automatically.

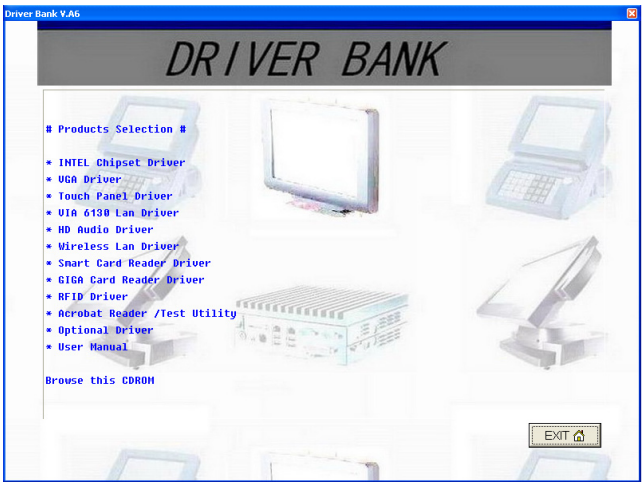


3. Click **OK** on the pop-up message box.

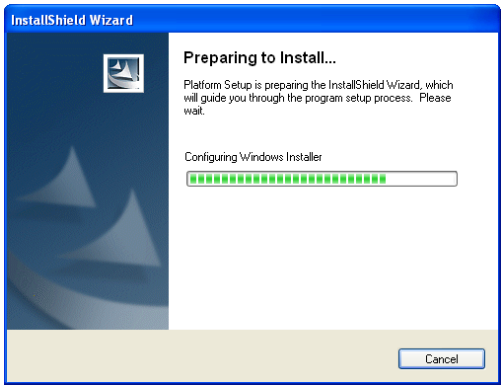


3.5. Audio Driver Installation

1. On the main screen, click **HD Audio Driver**.



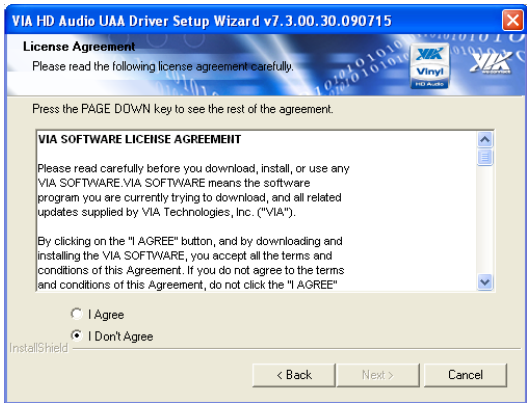
2. The driver is preparing to install.


InstallShield Wizard
Preparing to Install...
Platform Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.
Configuring Windows Installer
Cancel

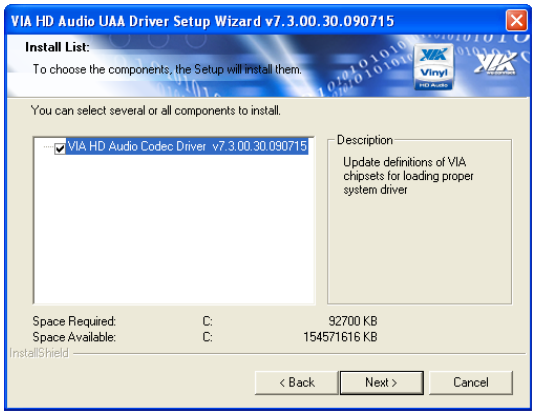
3. Click **Next**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Welcome to the Install Wizard for VIA HD Audio UAA Driver Setup Program
The Install Wizard will install VIA HD Audio UAA Driver Setup Program on your computer. To continue, click Next.
U-Version:5.2.1.34
< Back
Next >
Cancel

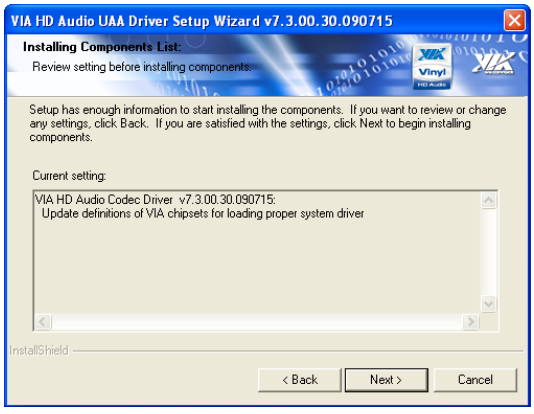
4. Select "**I Agree**" and click **Next**.


VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
License Agreement
Please read the following license agreement carefully.
Press the PAGE DOWN key to see the rest of the agreement.
VIA SOFTWARE LICENSE AGREEMENT
Please read carefully before you download, install, or use any VIA SOFTWARE.VIA SOFTWARE means the software program you are currently trying to download, and all related updates supplied by VIA Technologies, Inc. ("VIA").
By clicking on the "I AGREE" button, and by downloading and installing the VIA SOFTWARE, you accept all the terms and conditions of this Agreement. If you do not agree to the terms and conditions of this Agreement, do not click the "I AGREE"
I Agree
I Don't Agree
InstallShield
< Back
Next >
Cancel

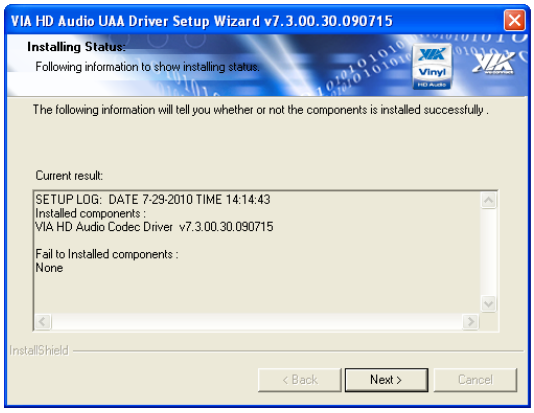
5. Check "**VIA HD Audio Codec Drive v7.300 30.090715**" box, and then click **Next**.


VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Install List:
To choose the components, the Setup will install them.
You can select several or all components to install.
VIA HD Audio Codec Driver v7.3.00.30.090715
Description
Update definitions of VIA chipsets for loading proper system driver
Space Required: C: 92700 KB
Space Available: C: 154571616 KB
InstallShield
< Back
Next >
Cancel

6. Click **Next**.


VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Installing Components List:
Review setting before installing components.
Setup has enough information to start installing the components. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin installing components.
Current setting:
VIA HD Audio Codec Driver v7.3.00.30.090715:
Update definitions of VIA chipsets for loading proper system driver
InstallShield
< Back
Next >
Cancel

7. Click **Next**.


VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Installing Status:
Following information to show installing status.
The following information will tell you whether or not the components is installed successfully .
Current result:
SETUP LOG: DATE 7-29-2010 TIME 14:14:43
Installed components :
VIA HD Audio Codec Driver v7.3.00.30.090715
Fail to Installed components :
None
InstallShield
< Back
Next >
Cancel

8. Select restart your computer right now or later, and then lick **Finish**.

VIA HD Audio UAA Driver Setup Wizard v7.3.00.30.090715
Install Wizard Completed.
The Install Wizard has successfully installed VIA HD Audio UAA Driver Setup Program. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

4.

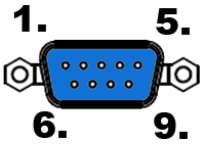
I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

4.1. Power Connector

PIN	Description	PIN	Description
1	+19V	3	GROUND
2	+19V	4	GROUND

4.2. Serial Port

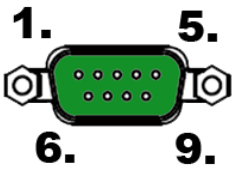


PIN	Description	PIN	Description
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 5V /12V
5	GND		

4.3. RJ50 (COM 2)

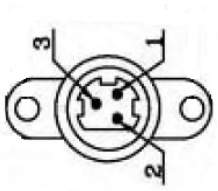
PIN	Description	PIN	Description
1	RI / 5V / 12V	6	RXD
2	DSR	7	GND
3	RTS	8	CTS
4	GND	9	DTR
5	TXD	10	DCD.

4.4. RS422/RS485



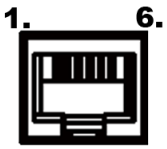
	RS-232	RS-422	RS-485
Pin1	DCD	TX-	D-
Pin2	RXD	TX+	D+
Pin3	TXD	RX+	
Pin4	DTR	RX-	

4.5. DC Out



PIN	Description	PIN	Description
1	NC	3	+24V
2	GROUND		

4.6. Cash Drawer



Connector

PIN	Description	PIN	Description
1	GND	4	DC24V
2	D_OUT0	5	D_OUT1
3	D_IN	6	GND

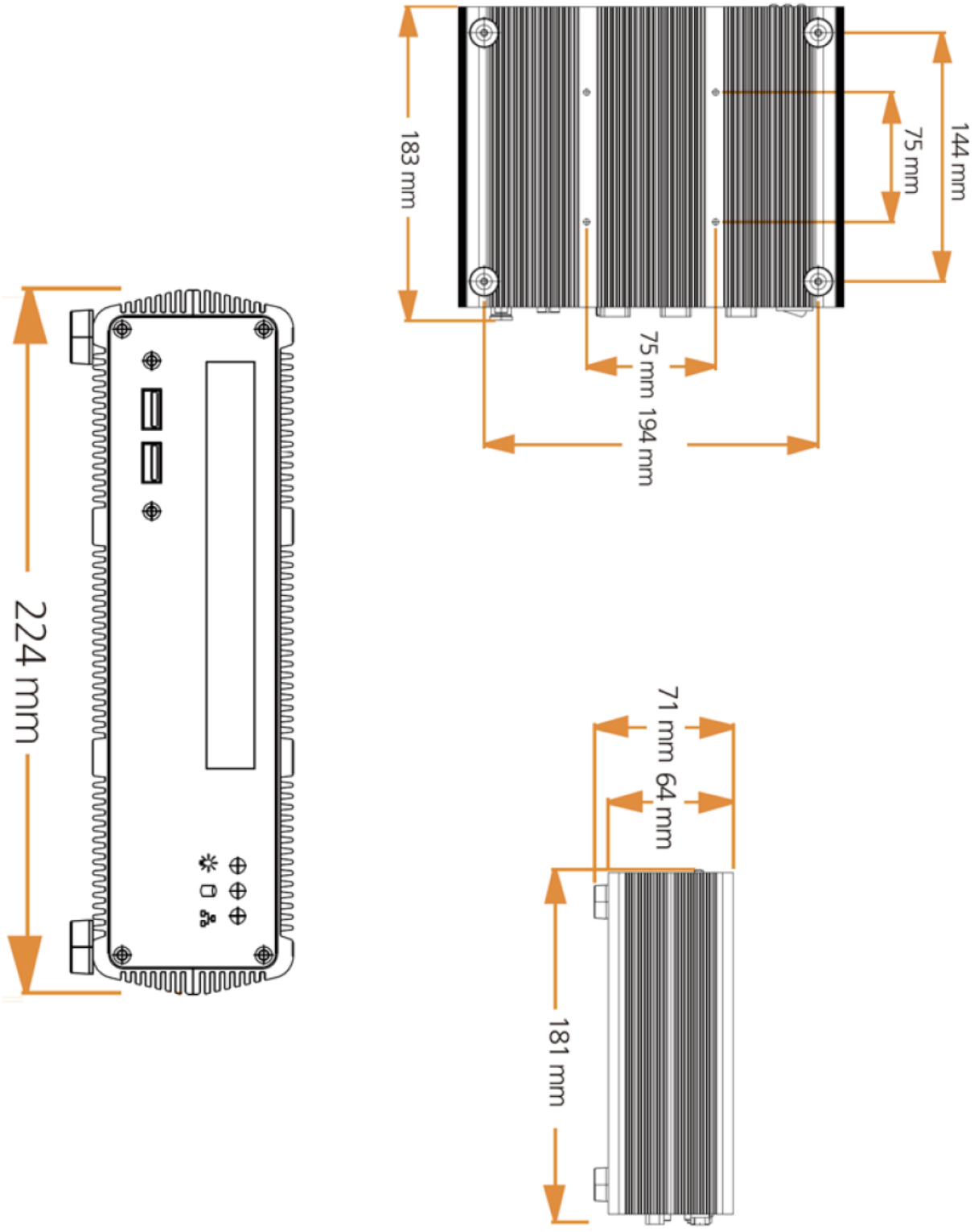
Cash Drawer Control

Status	Address	Value
Open	280H	Bit 4 = 0
Close	280H	Bit 4 = 1
Read Status	281H	Bit 0 = 0/1 0=Open, 1=Close

5.

Specification

5.1. The Device



Main Board	
CPU	Intel® AtomTM Processor D525
Chipset	Intel® ICH8-M
System Memory	1 x 204 Pin DDR3 SO-DIMM Socket, up to 4GB
Thermal Solution	Fan-less
OS	Win XP / XPe,WinCE6.0, Fedora 10/kernel 2.6.x, WEPOS/POS ready 2009/Vista/ DOS6.22 Windows 7
Storage Device	
HDD	1 x 2.5" HDD Drive Bay
I/O Ports	
Serial	6 x RS-232 Pin9 ,w/ RI/5V/12V Selectable by BIOS COM 1 : RS-232/422/485, DB-9 COM 2 : RS232 , RJ50 10 pins w/ COM cable COM 3 / 4 : RS232 , DB-9 COM 5 : RS232 , Internal 15-Pin header with PS/2 COM 6 : RS232 , Internal pin header
USB	**6** x USB 2.0
LAN	2 x Gigabit Ethernet by RJ-45 , Support Wake on LAN
WIFI	802.11b/g/n
Cash Drawer	1 x RJ11 (24VDC)
VGA	1x DB-15
Power Supply	External adapter, 90Watt, 19VDC output
Color	Black
Material	Aluminum
EMC& Safety Compliance	FCC / CE / VCCI
Weight	Approximate 2.48 Kgs
Dimension	224 W x 183D x 71 H (mm)
Operation Temperature	0°C ~ 40°C
Storage Temperature	-20° ~ 60°C,
Storage Humidity	20 – 80% RH, non-condensing